



Functional Independence Mathematics

Official Released Items

Grade 8

**Fall 2006
Official Released Items**

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The Grade 8 Functional Independence Mathematics Assessment was administered for the first time in Fall 2005. Beginning with this administration, the Office of Educational Assessment and Accountability (OEAA) will annually release a portion of the items that are administered on the assessment. This booklet contains released items from the Fall 2006 administration and is intended to be used by districts to assist in their interpretation of item analysis data. The information contained in this booklet may also be used by schools, teachers, and parents as a resource for understanding the content and format of the assessment items. In addition to MI-Access training materials and Extended Grade Level Content Expectations (EGLCE), the released items may also have utility in informing decisions related to instruction, curriculum, and assessment. These items are **not** secure and may be copied and distributed as needed.

The table below lists the number of core and released items administered on the Fall 2006 Grade 8 assessment booklet. Core items are those that count toward students' scores. All released items in this booklet were selected from the pool of core items that appeared on the assessment.

Functional Independence Mathematics Grade 8

Mathematics Strand	Number of Core Items
Numbers and Operations	17
Algebra	2
Measurement	10
Geometry	3
Data Analysis	3
Total Core Items/Points	35
Released Items	10 (Numbers vary by strand and topic.)

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DIRECTIONS: Read each question. Choose the **BEST** answer for each question.

R1 The cost of cereal boxes is shown in the table below.

Cereal Box Costs

Number of Boxes	Cost
1	\$4.00
2	\$8.00
3	\$12.00
4	?

What is the cost of 4 boxes of cereal?

- A** \$4.00
- B** \$16.00
- C** \$24.00

10553006

R2 Bob has 12 pens.

Which of the following combinations of pen colors could Bob have?

- A** 5 black, 5 blue, and 2 red
- B** 7 black, 4 blue, and 3 red
- C** 1 black, 2 blue, and 10 red

90024017

R3 Which unit can be used to measure weight?

- A** gallons
- B** pounds
- C** inches

90022009

R4 Below is a picture of a soda pop can.

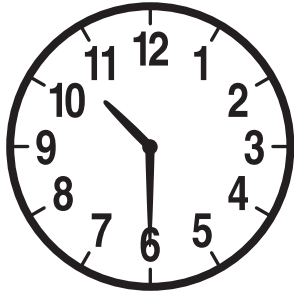


How much soda pop is in a can?

- A** 12 gallons
- B** 12 cups
- C** 12 ounces

90027027

- R5** George began weeding his garden at 10:30 A.M. and finished the job at 2:30 P.M.



How long did it take for George to weed the garden?

- A** 3 hours
- B** 4 hours
- C** 5 hours

90024040

R6 The table below shows the number of pizza slices sold during lunch.

Pizza Sales

Pizza Slices	Number Sold
Cheese	5
Pepperoni	7
Sausage	3

How many pizza slices were sold **altogether**?

A 5

B 12

C 15

90022001

R7 Paul traded 2 baseball cards every day at lunch.

He did this for 3 days.

How many cards did he trade **altogether**?

A 6

B 5

C 3

10553002

R8 Zoe bought 5 blue shirts, 3 black shirts, and 11 white shirts.

How many shirts did she buy in **all**?

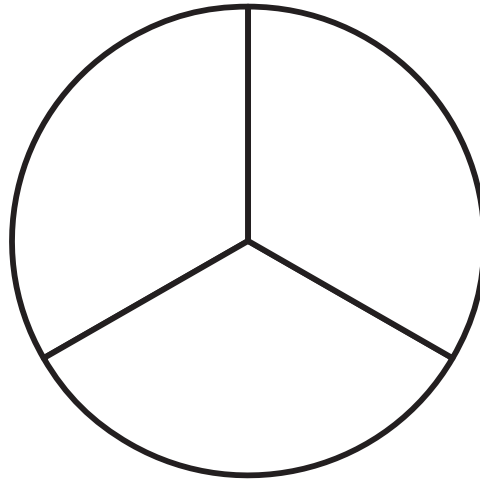
A 19

B 14

C 8

90024016

Use the circle graph below to answer question **R9**.



R9 Which fraction does each section in the circle graph represent?

- A** one-half
- B** one-third
- C** one-fourth

90029030

R10 Dan bought 3 oranges on Monday and 2 oranges on Tuesday.

Which choice describes how many oranges he bought in **all**?

A $3 + 2$

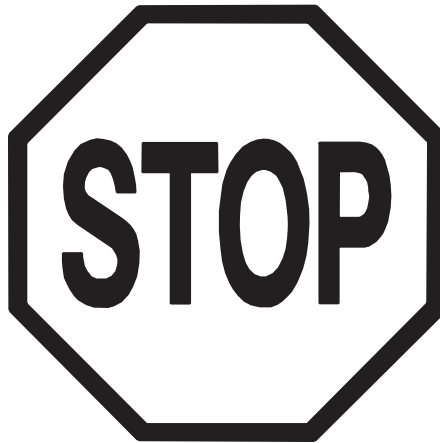
B $3 - 2$

C 3×2

90025021



Do Not Continue.



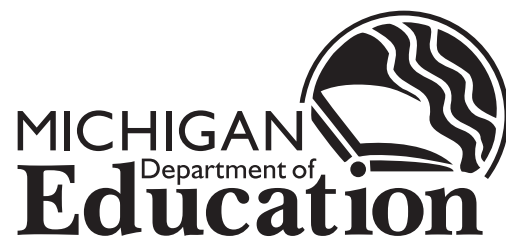
Do not continue until instructed to do so.

Below is a list of the Extended Grade Level Content Expectations (EGLCE) for each released item found in this booklet. The chart contains the EGLCE code, a brief description of what is measured, and the correct answer for each released item.

Because the assessment was administered during the **fall** of the school year, only content from the *previous* grade level was measured on the assessment. For example, items eligible for the Grade 8 assessment will measure the Grade 7 EGLCE.

Full descriptions of the EGLCE contained in the chart below are available for review and download at **www.mi.gov/mi-access**.

Released Item number	EGLCE Code	STRAND or Abbreviated Extended GLCE Descriptor	Answer Key
		DATA AND PROBABILITY	
R6	D.RE.07.EG04	Solve problems using data	C
		MEASUREMENT	
R3	M.UN.07.EG02	Select units of measure	B
R4	M.UN.07.EG02	Select units of measure	C
R5	M.PS.07.EG12	Solve word problems	B
		NUMBERS AND OPERATIONS	
R1	N.MR.07.EG06	Create, describe, and extend simple number patterns	B
R2	N.ME.07.EG02	Recognize representations for whole numbers to 100,000	A
R7	N.FL.07.EG13	Calculate simple products	A
R8	N.FL.07.EG09	Add and subtract one-,two-, and three digit numbers	A
R9	N.ME.07.EG15	Recognize, name, represent and write unit fractions	B
R10	N.MR.07.EG24	Select numbers to solve problems	A



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